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(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:

Michael CLINTON

Application No.: 10/524475

Confirmation No.: 6930

Filed: February 11, 2005

Art Unit: N/A

For: AVIAN SEX DETERMINATION METHOD

Examiner: Not Yet Assigned

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## **INFORMATION DISCLOSURE STATEMENT (IDS)**

Dear Sir:

This Information Disclosure Statement is being filed prior to the mailing date of a first Office Action on the merits. No fees are believed due with this submission, however the Commissioner is hereby authorized to debit any underpayment or credit any overpayment to our Deposit Account No. 08-0219.

Applicant requests that the Examiner initial and return a copy of the enclosed Form PTO SB-08 with the next communication.

Dated: Jan. 20, 2006

Respectfully submitted,

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PTO/SB/08a/b (07-05)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

2 of Sheet 1

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Complete if Known					
Application Number 10/524475-Conf. #6930					
Filing Date February 11, 2005					
First Named Inventor Michael CLINTON					
Art Unit N/A					
Examiner Name Not Yet Assigned					
Attorney Docket Number 0102286.00157US1					

	U.S. PATENT DOCUMENTS							
F		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where			
Examiner Initials*	Cite No.1	Number-Kind Code <sup>2</sup> ( if known)			Relevant Passages or Relevant Figures Appear			
	AA*	US-2,612,157	09-30-1952	Kizawa				
	AB*	US-4,417,663	11-29-1983	Kiyonobu				
	AC*	US-5,377,618	01-03-1995	Crews et al.				
	AD*	US-5,508,165	04-16-1996	Halverson et al.				
	AE*	US-5,707,809	01-13-1998	Halverson et al.				
	AF*	US-5,648,468	07-15-1997	Spaulding				
	AG*	US-5,679,514	10-21-1997	Baker				
	AH*	US-6,029,080	02-22-2000	Reynnells et al.				
	ΑI	US-2001/035370	11-01-2001	Ehrlich et al.				

FOREIGN PATENT DOCUMENTS							
Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
initials*	No.¹	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			L	
	BA	EP-0 295 964	12-21-1988	Agricultural and Food			
	1			Research Council	<u> </u>	╙	
	BB	SU-1044250		Volg Selskokhoz I		<u> </u>	
	ВС	WO-95/02605	01-26-1995	Florida State University		L	
	BD	WO-96/39505	12-12-1996	Isis Innovation Limited		<u> </u>	
	BE	WO-97/49806	12-31-1997	The University of Melbourne		ㄴ	
	BF	WO-00/01302	01-13-2000	Michigan State University		$oxed{oldsymbol{ol}}}}}}}}}}}}}}}}}}$	

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NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.1 Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, and/or country where published.					
	CA	ALTSCHUL et al., "Basic Local Alignment Search Tool", J. 1990	Mol. Biol., Vol.			
	СВ	ALTSCHUL et al., "Gapped BLAST and PSI-BLAST: a new search programs", Nucleic Acids Research, Vol. 25, No. 17	′, pp. 3389-340	02, 1997		
CC BECKMANN et al., "Monoclonal Antibodies Block Murine IL-4 Receptor Function", To of Immunology, Vol. 144, No. 11, pp. 4212-4217, 1 June 1990						
	CD CLINTON, M., "A rapid protocol for sexing chick embryos (Gallus g. domesticus)", Animal Genetics, Vol. 25, pp. 361-362, 1994  CE CLINTON et al., "An overview of factors influencing sex determination and gonadal development in birds", Genes and Mechanisms in Vertebrate Sex Determination, ed. by G. Scherer and M. Schmid, pp. 97-115, 2001				_	
CF CLINTON et al., "Sexing chick embryos: a rapid and simple protocol", <i>British Poultry Sc</i> Vol. 42, pp. 134-138, 2001  CG DOUGALL et al., "Antibody-structure-based design of pharmacological agents", <i>TIBTEC</i>						
				gents", <i>TIBTECH,</i> pp.	<u></u>	
Examine			Date Considered			

PTO/SB/08a/b (07-05)
Approved for use through 07/31/2006. OMB 0651-0031
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Cub	State for form 144074611	•		Application Number	10/524475-Conf. #6930
IN	<b>IFORMATION</b>	1 DI	SCLOSURE	Filing Date	February 11, 2005
S	STATEMENT BY APPLICANT			First Named Inventor	Michael CLINTON
				Art Unit	N/A
	(Use as many sheets as necessary)		Examiner Name	Not Yet Assigned	
Sheet	eet 2 of 2		Attorney Docket Number	0102286.00157US1	

	Tere 270 0 1 1 1001	
	372-379, September 1994	
CH		
	Vol. 1, No. 2, pp. 219-229, 2000	
CI	FRIDOLFSSON et al., "A simple and universal method for molecular sexing of non-ratite	
	birds", Journal of Avian Biology, Vol. 30, pp. 116-121, 1999	
CJ	GRIFFITHS et al., "A DNA test to sex most birds", Molecular Ecology, Vol. 7, pp. 1071-1075,	
	1998	
СК	HORI et al., "Wpkci, Encoding an Altered Form of PKCI, is Conserved Widely on the Avian W	
	Chromosome and Expressed in Early Female Embryos: Implication of Its Role in Female Sex	
	Determination", Molecular Biology of the Cell, Vol. 11, pp. 3645-3660, October 2000	
CL	KAHN et al., "Chromosome-specific Intron Size Differences in the Avian CHD Gene Provide	
	an Efficient Method for Sex Identification in Birds", The Auk, Vol. 115, No. 4, pp. 1074-1078,	
	1998	
СМ	KARLIN et al., "Applications and statistics for multiple high-scoring segments in molecular	
	sequences", Proc. Natl. Acad. Sci. USA, Vol. 90, pp. 5873-5877, June 1993	
CN	KARLIN et al., "Methods for assessing the statistical significance of molecular sequence	
	features by using general scoring schemes", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 2264-	
	2268. March 1990	
co	KOHLER et al., "Continuous cultures of fused cells secreting antibody of predefined	
	specificity". Nature, Vol. 256, pp. 495-497, 1975	
СР	MIELE et al., "A Rapid Protocol for the Authentication of Isolated Differential Display RT-PCR	
	CDNAs", Pre. Biochem. & Biotechnol., Vol. 29, No. 3, pp. 245-255, 1999	
CQ	NEWLIN et al "The Invader Assay: An Alternative to PCR-Based Testing for the Detection of	
	Point Mutations Associated with Venous Thrombosis", Clinical Hemostasis Review,	
į.	November 2000	L
CR	O'NEILL et al., "ASW: a gene with conserved avian W-linkage and female specific expression	
	in chick embryonic gonad", "Dev. Genes Evol., Vol. 210, pp. 243-249, 2000	
CS	OGAWA et al., "Molecular characterization and cytological mapping of a non-repetitive DNA	
-	sequence region from the W chromosome of chicken and its use as a universal probe for	
-	sexing Carinatae birds". Chromosome Research, Vol. 5, pp. 93-101, 1997	
СТ	PEARSON et al., "Improved tools for biological sequence comparison", Proc. Natl., Acad. Sci.	
١٠٠	USA, Vol. 85, pp. 2444-2448, April 1988	L
CU	TORELLI et al., "ADVANCE and ADAM: two algorithms for the analysis of global similarity	
0	between homologous informational sequences", CABIOS, Vol. 10, No. 1, pp. 3-6, 1994	L
CV	FNGVALL et al. "Enzyme-linked immunosorbent assay (ELISA) Quantitative assay of	
"	immunoglobulin G" Immunochemistry, Vol. 8, No. 9-I, pp. 871-874, 1971	
	CJ CK CL CM CN CO CP CQ	<ul> <li>Vol. 1, No. 2, pp. 219-229, 2000</li> <li>CI FRIDOLFSSON et al., "A simple and universal method for molecular sexing of non-ratite birds", <i>Journal of Avian Biology</i>, Vol. 30, pp. 116-121, 1999</li> <li>CJ GRIFFITHS et al., "A DNA test to sex most birds", <i>Molecular Ecology</i>, Vol. 7, pp. 1071-1075, 1998</li> <li>CK HORI et al., "Wpkci, Encoding an Altered Form of <i>PKCI</i>, is Conserved Widely on the Avian W Chromosome and Expressed in Early Female Embryos: Implication of Its Role in Female Sex Determination", <i>Molecular Biology of the Cell</i>, Vol. 11, pp. 3645-3660, October 2000</li> <li>CL KAHN et al., "Chromosome-specific Intron Size Differences in the Avian CHD Gene Provide an Efficient Method for Sex Identification in Birds", <i>The Auk</i>, Vol. 115, No. 4, pp. 1074-1078, 1998</li> <li>CM KARLIN et al., "Applications and statistics for multiple high-scoring segments in molecular sequences", <i>Proc. Natl. Acad. Sci. USA</i>, Vol. 90, pp. 5873-5877, June 1993</li> <li>CN KARLIN et al., "Methods for assessing the statistical significance of molecular sequence features by using general scoring schemes", <i>Proc. Natl. Acad. Sci. USA</i>, Vol. 87, pp. 2264-2268, March 1990</li> <li>CO KOHLER et al., "Continuous cultures of fused cells secreting antibody of predefined specificity", <i>Nature</i>, Vol. 256, pp. 495-497, 1975</li> <li>CP MIELE et al., "A Rapid Protocol for the Authentication of Isolated Differential Display RT-PCR CDNAs", <i>Pre. Biochem. &amp; Biotechnol.</i>, Vol. 29, No. 3, pp. 245-255, 1999</li> <li>CQ NEWLIN et al., "The Invader Assay: An Alternative to PCR-Based Testing for the Detection of Point Mutations Associated with Venous Thrombosis", <i>Clinical Hemostasis Review</i>, November 2000</li> <li>CR O'NEILL et al., "ASW: a gene with conserved avian W-linkage and female specific expression in chick embryonic gonad", "<i>Dev. Genes Evol.</i>, Vol. 210, pp. 243-249, 2000</li> <li>CS OGAWA et al., "Molecular characterization and cytological mapping of a non-repetitive DNA sequence region from the W chromosome of chicken and</li></ul>

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